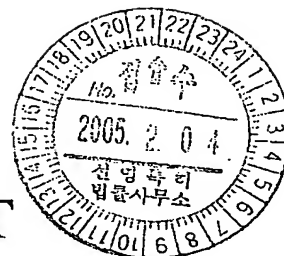


PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

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To:
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Date of mailing
(day/month/year) **31 JANUARY 2005 (31.01.2005)**

Applicant's or agent's file reference
04FKWM015

FOR FURTHER ACTION
See paragraph 2 below

International application No.
PCT/KR2004/002636

International filing date (day/month/year)
15 OCTOBER 2004 (15.10.2004)

Priority date(day/month/year)
16 OCTOBER 2003 (16.10.2003)

International Patent Classification (IPC) or both national classification and IPC
IPC7 F24C 15/02

Applicant
LG ELECTRONICS, INC. et al

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.
For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Address and mailing address of the ISA/KR
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WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2004/002636

Box No. 1 Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
☐ This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material
☐ a sequence listing
☐ table(s) related to the sequence listing
 - b. format of material
☐ in written format
☐ in computer readable form
 - c. time of filing/furnishing:
☐ contained in the international application as filed.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

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**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/KR2004/002636

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-20	YES
	Claims		NO
Inventive step (IS)	Claims	1-11, 14, 17, 19	YES
	Claims	12, 13, 15, 16, 18, 20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims		NO

2. Citations and explanations :

Reference is made to the following documents:

D1: KR 2000-31906 A

D2: US 6,664,523 B1

D1 relates to a microwave oven comprising a cooking chamber, a door for opening/closing said chamber, a high voltage transformer for generating high voltages, a magnetron for generating microwaves and further includes a microswitch serving as a detector for detecting the opening/closing of the cooking chamber, a control device for outputting a driving signal corresponding to the detected opening/closing of the chamber, and an opening/closing device for controlling a power source for supplying power to the high voltage transformer according to reception of the driving signal.

Claims 12, 13, 15, 16, 18 and 20 relate to a latch board of a microwave oven comprising a monitor switch operated by a first lever, a circuit switch operated by a second lever, a first lever hinge, a second lever hinge and a protrusion at the first lever.

Comparing claims 12, 13, 15, 16, 18 and 20 with D1, it would be obvious to a person skilled in the art to derive claims 12, 13, 15, 16, 18 and 20 from D1.

Therefore, claims 12, 13, 15, 16, 18 and 20 lack an inventive step under PCT Article 33(3).

Claim 1 is characterized in that in the course of inserting of the latch, the monitor switch begin to work before the circuit switch and that in the course of seceding of the latch, the circuit switch begin to work before the monitor switch. Neither D1 nor D2 discloses said characteristics of claim 1.

Therefore, the subject matter of claim 1 is considered to be novel and to involve an inventive step, and the subject matter of claims 2-11 which depend on claim 1 is also considered to be novel and to involve an inventive step.

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